

WEST Search History

DATE: Monday, October 25, 2004

Hide?	Set Name	Query	Hit Count
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L17	L16 and spraying	9
<input type="checkbox"/>	L16	L15 and (remov\$ and basket)	61
<input type="checkbox"/>	L15	dishwasher and (self-cleaning)	251
<input type="checkbox"/>	L14	L13 and (self-cleaning)	3
<input type="checkbox"/>	L13	in-sink dishwasher	20
<input type="checkbox"/>	L12	L11 and basket	9
<input type="checkbox"/>	L11	L10 and 134/\$.ccls.	38
<input type="checkbox"/>	L10	L9 and recirculating	50
<input type="checkbox"/>	L9	L8 and draining	88
<input type="checkbox"/>	L8	L7 and (removing or uncoupling)	180
<input type="checkbox"/>	L7	L6 and spray\$	371
<input type="checkbox"/>	L6	(wash chamber) and cleaning	519
<input type="checkbox"/>	L5	L4 and draining	3
<input type="checkbox"/>	L4	L3 and spraying	4
<input type="checkbox"/>	L3	L2 and (liquid supply)	4
<input type="checkbox"/>	L2	L1 and uncoupling	25
<input type="checkbox"/>	L1	dishwasher and (cleaning or washing)	12182

END OF SEARCH HISTORY

WEST Search History

DATE: Monday, October 25, 2004

Hide?	Set Name	Query	Hit Count
	<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ</i>		
<input type="checkbox"/>	L23	L18 near dishwasher	15
<input type="checkbox"/>	L22	L18 near3 dishwasher	38
<input type="checkbox"/>	L21	L18 near5 dishwasher	44
<input type="checkbox"/>	L20	L18 near10 dishwasher	54
<input type="checkbox"/>	L19	L18 and dishwasher	251
<input type="checkbox"/>	L18	self-cleaning	21311
<input type="checkbox"/>	L17	L16 and spraying	9
<input type="checkbox"/>	L16	L15 and (remov\$ and basket)	61
<input type="checkbox"/>	L15	dishwasher and (self-cleaning)	251
<input type="checkbox"/>	L14	L13 and (self-cleaning)	3
<input type="checkbox"/>	L13	in-sink dishwasher	20
<input type="checkbox"/>	L12	L11 and basket	9
<input type="checkbox"/>	L11	L10 and 134/\$.ccls.	38
<input type="checkbox"/>	L10	L9 and recirculating	50
<input type="checkbox"/>	L9	L8 and draining	88
<input type="checkbox"/>	L8	L7 and (removing or uncoupling)	180
<input type="checkbox"/>	L7	L6 and spray\$	371
<input type="checkbox"/>	L6	(wash chamber) and cleaning	519
<input type="checkbox"/>	L5	L4 and draining	3
<input type="checkbox"/>	L4	L3 and spraying	4
<input type="checkbox"/>	L3	L2 and (liquid supply)	4
<input type="checkbox"/>	L2	L1 and uncoupling	25
<input type="checkbox"/>	L1	dishwasher and (cleaning or washing)	12182

END OF SEARCH HISTORY

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 10 of 25 returned.

☐ 1. Document ID: US 20040194808 A1

Using default format because multiple data bases are involved.

L2: Entry 1 of 25

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040194808

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040194808 A1

TITLE: Method for cleaning an in-sink dishwasher

PUBLICATION-DATE: October 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Christman, Ralph E.	St. Joseph	MI	US	
Denne, Arnold L.	Stevensville	MI	US	
Lauer, Rud J.	Hartford	MI	US	

US-CL-CURRENT: 134/22.1; 134/22.12, 134/22.18, 134/34

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	----------

☐ 2. Document ID: US 20040144260 A1

L2: Entry 2 of 25

File: PGPB

Jul 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040144260

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040144260 A1

TITLE: Enclosed rotisserie with detachable electronic components

PUBLICATION-DATE: July 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Backus, Alan L.	Los Angeles	CA	US	
Popeil, Ron	Beverly Hills	CA	US	

US-CL-CURRENT: 99/419; 99/421H, 99/421R

ABSTRACT:

The present invention is directed toward an improved rotisserie oven, having the following features: a removable side mounted control box; single wall oven cabinet construction; single wall oven cabinet construction with tabs protruding from the lower side edges of the oven cabinet which mount feet to support the cabinet; a rigid heat coil structurally connected to the removable control box; a heat coil, supported by a bracket within the oven cabinet which both allows the heat coil to be slid in and out of the oven cabinet and allows for expansion of the heat coil when the coil is energized; a light bulb integrated with the removable control box so that the bulb's globe protrudes into the interior of the oven cabinet when the control box is mounted on the oven cabinet; a drive mechanism integrated into the removable control box which allows the control box to be easily removed from the oven cabinet; a drip pan located below the spit, which has its liquid catching reservoir recessed in from the pan's perimeter; a drip pan cover with an array of small holes recessed into its surface; a spit assembly, whose axis of rotation is located closer to a glass view port located on the oven cabinet's exterior than to the heater located within the oven cabinet; and a spit assembly, whose axis of rotation is located closer to the oven cabinet's loading door than to the top, bottom, back and heat coil within the oven cabinet, using the rotisserie in combination with specific foods and eating schedule, to help people lose weight.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

☐ 3. Document ID: US 20040037221 A1

L2: Entry 3 of 25

File: PGPB

Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040037221

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040037221 A1

TITLE: Method, system and apparatuses for the transmission of data on electric network

PUBLICATION-DATE: February 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Aisa, Valerio	Fabriano		IT	

US-CL-CURRENT: 370/229; 370/203

ABSTRACT:

There are described a method and a system for the transmission/reception or communication of data and/or information on electric line between two electronic control devices, including: an electric user (HA), in particular a household appliance, having a first electronic control system and at least a first electric load; a monitoring or control device (SA), having a second electronic control system, said device (SA) being located on said line between an electric power source and said first electric load. According to the invention, the transmission/reception or communication of data and/or information on said line is realized by means of an electric power modulation between said user (HA) and said

device (SA), and/or vice-versa.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

☐ 4. Document ID: US 20040006876 A1

L2: Entry 4 of 25

File: PGPB

Jan 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040006876

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040006876 A1

TITLE: Device to lift, move and flip foods

PUBLICATION-DATE: January 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Popeil, Ronald M.	Beverly Hills	CA	US	
Backus, Alan L.	Los Angeles	CA	US	

US-CL-CURRENT: 30/323; 30/322

ABSTRACT:

Double hooked device with the hooks being transversely positioned on the end of a shaft having a handle at its opposite end. The hooks may snag, lift, move and/or flip food or other articles by the hooks being rotated generally about the shaft's axis until one of the double hooks penetrates into the article to be lifted. A shield at the base of the handle is a guard to cover the tips of the hooks.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	----------

☐ 5. Document ID: US 20030205248 A1

L2: Entry 5 of 25

File: PGPB

Nov 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030205248

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030205248 A1

TITLE: In-sink dishwasher with self-aligning liquid feed system

PUBLICATION-DATE: November 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Christman, Ralph E.	St. Joseph	MI	US	
Denne, Arnold L.	Stevensville	MI	US	

Lauer, Rud J.

Hartford

MI

US

US-CL-CURRENT: 134/22.18; 134/104.1, 134/108, 134/111, 134/115R, 134/167R, 134/29,
134/36

ABSTRACT:

A dish-cleaning appliance comprising a sink having a bowl defining a wash chamber with an open top for providing access to the wash chamber. A liquid recirculation system is provided for spraying liquid onto the dish rack to effect the cleaning of any dishes along the rack. A basket with a sprayer is disposed within the wash chamber. A self-aligning coupling fluidly connects a liquid conduit to the sprayer when the basket is seated.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	---------

☐ 6. Document ID: US 20020122688 A1

L2: Entry 6 of 25

File: PGPB

Sep 5, 2002

PGPUB-DOCUMENT-NUMBER: 20020122688

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020122688 A1

TITLE: Device for transmitting motion between the rotor of a synchronous permanent-magnet motor and the working part, having an increased free rotation angle

PUBLICATION-DATE: September 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Marioni, Elio	Dueville		IT	

US-CL-CURRENT: 403/43

ABSTRACT:

A device for transmitting motion between the rotor of a synchronous permanent-magnet motor and the working part, having an increased free rotation angle, which comprises at least two motion transmission couplings which mutually cooperate in a kinematic series. Each coupling is constituted by at least one driving element which is eccentric with respect to the rotation axis and is rigidly coupled to a first component of the motion transmission system and by at least one driven element, which is also eccentric with respect to the rotation axis and is rigidly coupled to the component arranged kinematically after the preceding one. The angle covered by the elements of each coupling is, as a whole, less than a round angle. The intermediate components of the kinematic transmission have both a driven element and a driving element for receiving the motion from the preceding one and transmitting it to a subsequent one..

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	---------

☐ 7. Document ID: US 20010046337 A1

L2: Entry 7 of 25

File: PGPB

Nov 29, 2001

PGPUB-DOCUMENT-NUMBER: 20010046337

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010046337 A1

TITLE: Pasta, pastry, cookie, and hors d'oeuvre maker

PUBLICATION-DATE: November 29, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Backus, Alan L.	Los Angeles	CA	US	
Popeil, Ronald M.	Las Vegas	NV	US	

US-CL-CURRENT: 384/425

ABSTRACT:

A device to mix and extrude various ingredients including pastas, pastries, baked goods, hors d'oeuvres, and cookies. The device includes novel measuring, mixing and extrusion arrangements including: an automatic measuring cup; a way to continuously mix and extrude ingredients without intervening cleanings; a mixing and extrusion feed for handling different consistencies of ingredients; an integrated automatic cutter; motor cooling and extruded ingredient drying; as well as various safety devices.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	---------

☐ 8. Document ID: US 6743007 B2

L2: Entry 8 of 25

File: USPT

Jun 1, 2004

US-PAT-NO: 6743007

DOCUMENT-IDENTIFIER: US 6743007 B2

TITLE: Pasta, pastry, cookie, and hors d'oeuvre maker

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Backus; Alan L	Los Angeles	CA		
Popeil; Ronald M.	Las Vegas	NV		

US-CL-CURRENT: 425/192R, 425/207, 425/209, 425/376.1, 425/461

ABSTRACT:

h e b b g e e e f e ef b e

A device to mix and extrude various ingredients including pastas, pastries, baked goods, hors d'oeuvres, and cookies. The device includes novel measuring, mixing and extrusion arrangements including: an automatic measuring cup; a way to continuously mix and extrude ingredients without intervening cleanings; a mixing and extrusion feed for handling different consistencies of ingredients; an integrated automatic cutter; motor cooling and extruded ingredient drying; as well as various safety devices.

4 Claims, 26 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 18

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KMC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	--	--------	-----	----------

☐ 9. Document ID: US 6742531 B2

L2: Entry 9 of 25

File: USPT

Jun 1, 2004

US-PAT-NO: 6742531

DOCUMENT-IDENTIFIER: US 6742531 B2

TITLE: In-sink dishwasher with self-aligning liquid feed system

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Christman; Ralph E.	St. Joseph	MI		
Denne; Arnold L.	Stevensville	MI		
Lauer; Rud J.	Hartford	MI		

US-CL-CURRENT: 134/115R, 134/103.1, 134/176, 134/179, 134/198, 134/95.1, 134/99.1

ABSTRACT:

A dish-cleaning appliance comprising a sink having a bowl defining a wash chamber with an open top for providing access to the wash chamber. A liquid recirculation system is provided for spraying liquid onto the dish rack to effect the cleaning of any dishes along the rack. A basket with a sprayer is disposed within the wash chamber. A self-aligning coupling fluidly connects a liquid conduit to the sprayer when the basket is seated.

41 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference		Claims	KMC	Draw. De
------	-------	----------	-------	--------	----------------	------	-----------	--	--------	-----	----------

☐ 10. Document ID: US 6384508 B1

L2: Entry 10 of 25

File: USPT

May 7, 2002

h e b b g e e e f e ef b e

US-PAT-NO: 6384508

DOCUMENT-IDENTIFIER: US 6384508 B1

TITLE: Device for transmitting motion between the rotor of a synchronous permanent-magnet motor and the working part, having an increased free rotation angle

DATE-ISSUED: May 7, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Marioni; Elio	Dueville			IT

US-CL-CURRENT: 310/261; 310/80, 310/96

ABSTRACT:

A device for transmitting motion between the rotor of a synchronous permanent-magnet motor and the working part, having an increased free rotation angle, which comprises at least two motion transmission couplings which mutually cooperate in a kinematic series. Each coupling is constituted by at least one driving element which is eccentric with respect to the rotation axis and is rigidly coupled to a first component of the motion transmission system and by at least one driven element, which is also eccentric with respect to the rotation axis and is rigidly coupled to the component arranged kinematically after the preceding one. The angle covered by the elements of each coupling is, as a whole, less than a round angle. The intermediate components of the kinematic transmission have both a driven element and a driving element for receiving the motion from the preceding one and transmitting it to a subsequent one.

20 Claims, 16 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw. Des.
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	------------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Term	Documents
UNCOUPLING	23027
UNCOUPLINGS	72
(UNCOUPLING AND 1).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	25
(L1 AND UNCOUPLING).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	25

Display Format: Change Format

[Previous Page](#)

[Next Page](#)

[Go to Doc#](#)

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 11 through 20 of 25 returned.

☐ 11. Document ID: US 6280092 B1

Using default format because multiple data bases are involved.

L2: Entry 11 of 25

File: USPT

Aug 28, 2001

US-PAT-NO: 6280092

DOCUMENT-IDENTIFIER: US 6280092 B1

TITLE: Thrust bearing to be used in a contaminated environment

DATE-ISSUED: August 28, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Backus; Alan L.	Los Angeles	CA	90025	
Popeil; Ronald M.	Las Vegas	NV	89109	

US-CL-CURRENT: 384/425

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--	--------	-----	--------

☐ 12. Document ID: US 6122777 A

L2: Entry 12 of 25

File: USPT

Sep 26, 2000

US-PAT-NO: 6122777

DOCUMENT-IDENTIFIER: US 6122777 A

TITLE: Apparatus for coupling fluid flow lines

DATE-ISSUED: September 26, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sage-Passant; Peter	Milton Keynes, MK11 3NF			GB

US-CL-CURRENT: 4/695; 285/33

ABSTRACT:

An apparatus for coupling fluid flow lines to a mobile sink unit or appliance. The apparatus includes a first part (2) for mounting on the mobile sink unit or appliance and a second part (4) for mounting on a wall. The first and second parts

being separable by relative movement in a first direction that is substantially horizontal. The first part (2) including a plurality of first connector elements (6) mounted on a first support member (10). Each first connector element (6) has a longitudinal axis that is substantially vertical. The first support member (10) is mounted for vertical reciprocating movement. The second part (4) includes a plurality of second connector elements (20) mounted on a second support member (22), each second connector element (20) having a longitudinal axis that is substantially vertical. Each second connector element (20) is connectable to one of the first connector elements (6) to make a fluid flow connection by axial movement relative thereto. A drive member (44) for engaging the first support member (10) when the first connector elements (6) are axially aligned with the second connector elements (20). An operating handle (30) that is drivingly connected to the drive member (44), and is operable to drive the drive member (44) in the direction of said longitudinal axes, to connect or disconnect said first and second connector elements.

8 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KNOW	Draw
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	------

13. Document ID: US 5927616 A

L2: Entry 13 of 25

File: USPT

Jul 27, 1999

US-PAT-NO: 5927616

DOCUMENT-IDENTIFIER: US 5927616 A

TITLE: Quick change rinse arm for warewasher

DATE-ISSUED: July 27, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grise; Ronald Eugene	Piqua	OH		
Schrand; William David	Oregonia	OH		

US-CL-CURRENT: 239/600; 134/201, 239/566

ABSTRACT:

A rinse arm spray system for directing multiple streams of water supplied under pressure from a source of water, the system comprising: a water supply conduit for supplying the water; a rinse arm having an exterior surface, an interior volume, a first open end, and a second end, the arm being releasably connected to the water supply conduit wherein the first open end is in communication with the water supply conduit; a plurality of spray nozzles spaced apart along the exterior surface of the arm, the nozzles communicating with the interior volume of the arm for providing directed streams of water supplied to the arm under pressure; an actuating mechanism releasably connected to a second end of the rinse arm, the actuating mechanism comprising a rod adapted to cooperate with the second end of the rinse arm, a guide tube for supporting the rod, a helical spring enclosing the rod, and a pressure actuating means for exerting pressure to compress the spring

wherein the rinse arm is disengaged from the system, and for releasing pressure to relax the spring wherein the rinse arm is securely engaged in the system.

5 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw: De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	----------

☐ 14. Document ID: US RE36147 E

L2: Entry 14 of 25

File: USPT

Mar 16, 1999

US-PAT-NO: RE36147
DOCUMENT-IDENTIFIER: US RE36147 E

TITLE: Pasta, pastry, cookie and hors d'oeuvre maker

DATE-ISSUED: March 16, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Backus; Alan L.	Las Vegas	NV		
Popeil; Ronald M.	Las Vegas	NV		

US-CL-CURRENT: 425/209; 366/77, 366/99, 426/504, 426/516, 99/348

ABSTRACT:

A device to mix and extrude various ingredients including pastas, pastries, baked goods, hors d'oeuvres, and cookies. The device includes novel measuring, mixing and extrusion arrangements including: an automatic measuring cup; a way to continuously mix and extrude ingredients without intervening cleanings; a mixing and extrusion feed for handling different consistencies of ingredients; an integrated automatic cutter; motor cooling and extruded ingredient drying; as well as various safety devices.

8 Claims, 26 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 16

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw: De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	----------

☐ 15. Document ID: US 5731012 A

L2: Entry 15 of 25

File: USPT

Mar 24, 1998

US-PAT-NO: 5731012
DOCUMENT-IDENTIFIER: US 5731012 A

**** See image for Certificate of Correction ****

TITLE: Pasta, pastry, cookie and hors d'oeuvre maker

DATE-ISSUED: March 24, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Backus; Alan L.	Los Angeles	CA		
Popeil; Ronald M.	Las Vegas	NV		

US-CL-CURRENT: 425/151; 366/77, 366/79, 425/186, 425/188, 425/205, 426/516, 99/348

ABSTRACT:

A device to mix and extrude various ingredients including pastas, pastries, baked goods, hors d'oeuvres, and cookies. The device includes novel measuring, mixing and extrusion arrangements including: an automatic measuring cup; a way to continuously mix and extrude ingredients without intervening cleanings; a mixing and extrusion feed for handling different consistencies of ingredients; an integrated automatic cutter; motor cooling and extruded ingredient drying; as well as various safety devices.

5 Claims, 26 Drawing figures

Exemplary Claim Number: 4

Number of Drawing Sheets: 18

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 16. Document ID: US 5684281 A

L2: Entry 16 of 25

File: USPT

Nov 4, 1997

US-PAT-NO: 5684281

DOCUMENT-IDENTIFIER: US 5684281 A

TITLE: Timer camstack and clutch

DATE-ISSUED: November 4, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Amonett; Daniel Keith	Indianapolis	IN		

US-CL-CURRENT: 200/38R; 200/38B

ABSTRACT:

An appliance timer has features to facilitate automated assembly or manual assembly. A timer housing base accepts timer components from two directions, and installation of components in either direction is along a straight axis. A motor in the timer engages a gear train which runs a drive cam. The drive cam imparts motion to a camstack which then engages timer blade switches, and the blade switches operate the appliance. A subinterval is also supplied on the timer to allow

periodic operation of a switch without the use of the camstack. The timer also features a quiet manual advance which removes the blade switches from communication with the camstack to allow an operator to select various timer programs without any of the clicking noises that are usually associated with timer program selection. Furthermore, a detent slider is positioned in communication with the camstack to provide a tactile feel for the operator of the timer when selecting between various timer programs.

28 Claims, 30 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 21

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--------	-----	---------

☐ 17. Document ID: US 5421713 A

L2: Entry 17 of 25

File: USPT

Jun 6, 1995

US-PAT-NO: 5421713

DOCUMENT-IDENTIFIER: US 5421713 A

TITLE: Pasta, pastry, cookie and hors d'oeuvre maker

DATE-ISSUED: June 6, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Backus; Alan L.	Los Angeles	CA		
Popeil; Ronald M.	Las Vegas	NV		

US-CL-CURRENT: 425/209; 366/77, 366/99, 426/504, 426/516, 99/348

ABSTRACT:

A device to mix and extrude various ingredients including pastas, pastries, baked goods, hors d'oeuvres, and cookies. The device includes novel measuring, mixing and extrusion arrangements including: an automatic measuring cup; a way to continuously mix and extrude ingredients without intervening cleanings; a mixing and extrusion feed for handling different consistencies of ingredients; an integrated automatic cutter; motor cooling and extruded ingredient drying; as well as various safety devices.

6 Claims, 26 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 16

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--------	-----	---------

☐ 18. Document ID: US 5022560 A

L2: Entry 18 of 25

File: USPT

Jun 11, 1991

US-PAT-NO: 5022560
DOCUMENT-IDENTIFIER: US 5022560 A

TITLE: Spigot and wrench combination for a beverage dispenser

DATE-ISSUED: June 11, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Campbell; William P.	Corona del Mar	CA	92625	

US-CL-CURRENT: 222/131; 285/39

ABSTRACT:

A beverage container having a spigot with a faucet for dispensing beverages. The spigot is removably secured within the walls of the beverage container by a hex nut having exterior protuberances or nibs. The faucet is removably secured to the spigot outside of the beverage container by a winged connector backed by a spring clip for removably securing the spigot to the faucet. The winged connector is used as a key for engaging the nibs or protuberances of the securement nut for causing it to turn and be tightened or loosened from the threads of the spigot, thereby allowing the removal of the spigot from the beverage container.

22 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw	Doc
------	-------	----------	-------	--------	----------------	------	-----------	--------	-----	------	-----

☐ 19. Document ID: US 4735222 A

L2: Entry 19 of 25

File: USPT

Apr 5, 1988

US-PAT-NO: 4735222
DOCUMENT-IDENTIFIER: US 4735222 A

TITLE: Spray system for a dishwashing machine

DATE-ISSUED: April 5, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Crane; Herbert R.	Kenton	OH		
Valentine; Richard D.	Pleasant Hill	OH		

US-CL-CURRENT: 134/172; 134/183, 239/557

ABSTRACT:

A spray system is disclosed for forming directed streams of liquid under pressure. A supply conduit having an open end and a manifold communicating with a plurality

of spray nozzles and having an inlet conduit with an open end cooperate for insertion of the inlet conduit into the supply conduit to connect the manifold to the supply conduit, the manifold is placed near the supply conduit in a predetermined but misaligned position. A plate having a slot defines at least a portion of a pair of cam surfaces and a wash arm formed on the manifold defines a cam follower. Rotation of the inlet conduit about its central axis causes the cam follower to contact and cooperate with the cam surfaces to produce lateral force along the inlet conduit, thereby forcing the same into fluid-tight engagement with the supply conduit. Alternatively, a pin and a cooperating opening may be provided, so that placement of the pin within the opening enables pivotal motion of the inlet conduit for moving the same into engagement with the supply conduit.

11 Claims, 10 Drawing figures
Exemplary Claim Number: 5
Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWC	Draw. D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	-----	---------

☐ 20. Document ID: US 4657188 A

L2: Entry 20 of 25

File: USPT

Apr 14, 1987

US-PAT-NO: 4657188
DOCUMENT-IDENTIFIER: US 4657188 A

TITLE: Spray system for a dishwashing machine

DATE-ISSUED: April 14, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Crane; Herbert R.	Kenton	OH		
Valentine; Richard D.	Pleasant Hill	OH		

US-CL-CURRENT: 239/557; 134/59, 134/72, 239/565, 239/600, 285/24, 285/31

ABSTRACT:

A spray system is disclosed for forming directed streams of liquid under pressure. A supply conduit having an open end and a manifold communicating with a plurality of spray nozzles and having an inlet conduit with an open end cooperate for insertion of the inlet conduit into the supply conduit to connect the manifold to the supply conduit, the manifold is placed near the supply conduit in a predetermined but misaligned position. A plate having a slot defines at least a portion of a pair of cam surfaces and a wash arm formed on the manifold defines a cam follower. Rotation of the inlet conduit about its central axis causes the cam follower to contact and cooperate with the cam surfaces to produce lateral force along the inlet conduit, thereby forcing the same into fluid-tight engagement with the supply conduit. Alternatively, a pin and a cooperating opening may be provided, so that placement of the pin within the opening enables pivotal motion of the inlet conduit for moving the same into engagement with the supply conduit.

8 Claims, 10 Drawing figures
Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Term	Documents
UNCOUPLING	23027
UNCOUPLINGS	72
(UNCOUPLING AND 1).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	25
(L1 AND UNCOUPLING).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	25

Display Format: [Previous Page](#)[Next Page](#)[Go to Doc#](#)

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 21 through 25 of 25 returned.

☐ 21. Document ID: US 4064887 A

Using default format because multiple data bases are involved.

L2: Entry 21 of 25

File: USPT

Dec 27, 1977

US-PAT-NO: 4064887

DOCUMENT-IDENTIFIER: US 4064887 A

TITLE: Upper level wash arm system

DATE-ISSUED: December 27, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Geiger; Paul B.	Troy	OH		
Grunewald; Ernst	Troy	OH		
Vallor; Ben J.	Troy	OH		

US-CL-CURRENT: 134/144; 134/163, 134/165, 134/177, 211/41.8, 312/351

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUIC	Draw. D.
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	----------

☐ 22. Document ID: US 3811600 A

L2: Entry 22 of 25

File: USPT

May 21, 1974

US-PAT-NO: 3811600

DOCUMENT-IDENTIFIER: US 3811600 A

**** See image for Certificate of Correction ****

TITLE: TREATING AGENT DISPENSER FOR AUTOMATIC WASHING MACHINE

DATE-ISSUED: May 21, 1974

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Allison; James E.	Jeffersontown	KY		
Boecker; Bob F.	Louisville	KY		

US-CL-CURRENT: 222/652; 222/166

ABSTRACT:

h e b b cg b cc e

There is disclosed a dispenser for storing and dispensing treating agent in an automatic washing machine. The dispenser is designed to position the treating agent container in a sealed storage position regardless of variations in the device caused by manufacturing and assembly tolerances.

11 Claims, 8 Drawing figures Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	---------

☐ 23. Document ID: US 3593743 A

L2: Entry 23 of 25

File: USPT

Jul 20, 1971

US-PAT-NO: 3593743

DOCUMENT-IDENTIFIER: US 3593743 A

TITLE: FAUCET-COUPPLING ASSEMBLY FOR A WASHING MACHINE

DATE-ISSUED: July 20, 1971

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guth; Lauren W.	Louisville	KY		

US-CL-CURRENT: 137/502; 137/562, 137/583

ABSTRACT:

A coupling assembly for connecting a washing machine to a water faucet having a handle member protruding from its body portion that serves as a spout for draining water from the assembly. The handle member is manually slidable to unseat a valve to thereby dispense the water therethrough. The handle member is linked to a quick-release connector that fastens the assembly to the faucet so that manipulation of the connector to release it is translated to the valve. Water pressure within the assembly is relieved as the release operation takes place.

10 Claims, 3 Drawing figures Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	---------

☐ 24. Document ID: JP 11262464 A

L2: Entry 24 of 25

File: JPAB

Sep 28, 1999

PUB-NO: JP411262464A

DOCUMENT-IDENTIFIER: JP 11262464 A

TITLE: DISHWASHER

PUBN-DATE: September 28, 1999

INVENTOR-INFORMATION:

NAME

COUNTRY

KITAZAKI, YUKIHIRO

KAJIWARA, HIROSHI

INT-CL (IPC): A47 L 15/42

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	--------

☐ 25. Document ID: US 3444890 A

L2: Entry 25 of 25

File: USOC

May 20, 1969

US-PAT-NO: 3444890

DOCUMENT-IDENTIFIER: US 3444890 A

TITLE: MEANS TO CONNECT AN AUTOMATIC WASHING MACHINE TO A WATER FAUCET

DATE-ISSUED: May 20, 1969

INVENTOR-NAME: RALSTON BOBBY J

US-CL-CURRENT: 137/562; 137/625.46, 251/149.9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	--------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Term	Documents
UNCOUPLING	23027
UNCOUPLINGS	72
(UNCOUPLING AND 1).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	25
(L1 AND UNCOUPLING).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	25

Display Format:

Change Format

[Previous Page](#)[Next Page](#)[Go to Doc#](#)

Hit List

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#)
[Generate OACS](#)

Search Results - Record(s) 1 through 9 of 9 returned.

☐ 1. Document ID: US 20040194808 A1

Using default format because multiple data bases are involved.

L12: Entry 1 of 9

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040194808

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040194808 A1

TITLE: Method for cleaning an in-sink dishwasher

PUBLICATION-DATE: October 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Christman, Ralph E.	St. Joseph	MI	US	
Denne, Arnold L.	Stevensville	MI	US	
Lauer, Rud J.	Hartford	MI	US	

US-CL-CURRENT: [134/22.1](#); [134/22.12](#), [134/22.18](#), [134/34](#)

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KWC](#) [Draw D](#)

☐ 2. Document ID: US 20030205248 A1

L12: Entry 2 of 9

File: PGPB

Nov 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030205248

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030205248 A1

TITLE: In-sink dishwasher with self-aligning liquid feed system

PUBLICATION-DATE: November 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Christman, Ralph E.	St. Joseph	MI	US	
Denne, Arnold L.	Stevensville	MI	US	
Lauer, Rud J.	Hartford	MI	US	

US-CL-CURRENT: [134/22.18](#); [134/104.1](#), [134/108](#), [134/111](#), [134/115R](#), [134/167R](#), [134/29](#),

134/36

ABSTRACT:

A dish-cleaning appliance comprising a sink having a bowl defining a wash chamber with an open top for providing access to the wash chamber. A liquid recirculation system is provided for spraying liquid onto the dish rack to effect the cleaning of any dishes along the rack. A basket with a sprayer is disposed within the wash chamber. A self-aligning coupling fluidly connects a liquid conduit to the sprayer when the basket is seated.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	------	---------

☐ 3. Document ID: US 6742531 B2

L12: Entry 3 of 9

File: USPT

Jun 1, 2004

US-PAT-NO: 6742531

DOCUMENT-IDENTIFIER: US 6742531 B2

TITLE: In-sink dishwasher with self-aligning liquid feed system

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Christman; Ralph E.	St. Joseph	MI		
Denne; Arnold L.	Stevensville	MI		
Lauer; Rud J.	Hartford	MI		

US-CL-CURRENT: 134/115R; 134/103.1, 134/176, 134/179, 134/198, 134/95.1, 134/99.1

ABSTRACT:

A dish-cleaning appliance comprising a sink having a bowl defining a wash chamber with an open top for providing access to the wash chamber. A liquid recirculation system is provided for spraying liquid onto the dish rack to effect the cleaning of any dishes along the rack. A basket with a sprayer is disposed within the wash chamber. A self-aligning coupling fluidly connects a liquid conduit to the sprayer when the basket is seated.

41 Claims, 12 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

☐ 4. Document ID: US 6622754 B1

L12: Entry 4 of 9

File: USPT

Sep 23, 2003

US-PAT-NO: 6622754
DOCUMENT-IDENTIFIER: US 6622754 B1

TITLE: Load-based dishwashing cycle

DATE-ISSUED: September 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Roth; Ryan Kevin	St. Joseph	MI		
Groppel; Stephen M.	Stevensville	MI		

US-CL-CURRENT: 134/25.2, 134/56D, 134/57D

ABSTRACT:

A method of determining a dish load for an automatic dishwasher and a method of operating the automatic dishwasher based on the dish load. The dish load is determined by determining a first temperature corresponding to the temperature of the dishes, determining a second temperature corresponding to the temperature of a charge of water prior to a time when the charge of water contacts and transfers heat to the dishes, determining a third temperature corresponding to the temperature of the second charge of water when the temperature of the second charge of water and dishes have equalized, and calculating a temperature ratio of the difference between the second and third temperatures and the difference between the third and first temperatures.

39 Claims, 6 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 5. Document ID: US RE30537 E

L12: Entry 5 of 9

File: USPT

Mar 3, 1981

US-PAT-NO: RE30537
DOCUMENT-IDENTIFIER: US RE30537 E

TITLE: Method for rinsing and chemically sanitizing food ware items

DATE-ISSUED: March 3, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fraula; Louis F.	Troy	OH		
Athey; Stuart E.	Troy	OH		

US-CL-CURRENT: 134/10; 134/25.2; 134/36

ABSTRACT:

A low wash and rinse temperature (120.degree.-140.degree. F.) warewasher accomplishes the same general washing and rinsing effectiveness as a conventional high temperature (150.degree. F. minimum wash, 180.degree. F. minimum rinse) warewasher without loss of productivity resulting from time lost between completion of washing and commencement of rinsing a given load of ware, through use of independent, dedicated wash and rinse systems, the latter of which includes a holding tank which enables independent batching of a predetermined volume of rinse solution from properly-proportioned fresh water and sanitizing agent while washing a given load of ware. The sanitizing agent is introduced independently into the holding tank and independently of the fresh water line, and is therefore unaffected by a great range of water line pressures and the mineral conditions of the water.

10 Claims, 9 Drawing figures

Exemplary Claim Number: 19

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--------	------	---------

☐ 6. Document ID: US RE30478 E

L12: Entry 6 of 9

File: USPT

Jan 13, 1981

US-PAT-NO: RE30478

DOCUMENT-IDENTIFIER: US RE30478 E

TITLE: Apparatus for rinsing and chemically sanitizing food ware items

DATE-ISSUED: January 13, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fraula; Louis F.	Troy	OH		
Athey; Stuart E.	Troy	OH		

US-CL-CURRENT: 134/57D; 134/103.1, 134/99.2

ABSTRACT:

A low wash and rinse temperature (120.degree.-140.degree. F.) warewasher accomplishes the same general washing and rinsing effectiveness as a conventional high temperature (150.degree. F. minimum wash, 180.degree. F. minimum rinse) warewasher without loss of productivity resulting from time lost between completion of washing and commencement of rinsing a given load of ware, through use of independent, dedicated wash and rinse systems, the latter of which includes a holding tank which enables independent batching of a predetermined volume of rinse solution from properly-proportioned fresh water and sanitizing agent while washing a given load of ware. The sanitizing agent is introduced independently into the holding tank and independently of the fresh water line, and is therefore unaffected by a great range of water line pressures and the mineral conditions of the water.

13 Claims, 9 Drawing figures

Exemplary Claim Number: 13

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw	De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	------	----

☐ 7. Document ID: US 4147559 A

L12: Entry 7 of 9

File: USPT

Apr 3, 1979

US-PAT-NO: 4147559

DOCUMENT-IDENTIFIER: US 4147559 A

TITLE: Apparatus for rinsing and chemically sanitizing food ware items

DATE-ISSUED: April 3, 1979

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fraula; Louis F.	Troy	OH		
Athey; Stuart E.	Troy	OH		

US-CL-CURRENT: 134/57D; 134/103.1, 134/99.2

ABSTRACT:

A low wash and rinse temperature (120.degree.-140.degree. F.) warewasher accomplishes the same general washing and rinsing effectiveness as a conventional high temperature (150.degree. F. minimum wash, 180.degree. F. minimum rinse) warewasher without loss of productivity resulting from time lost between completion of washing and commencement of rinsing a given load of ware, through use of independent, dedicated wash and rinse systems, the latter of which includes a holding tank which enables independent batching of a predetermined volume of rinse solution from properly-proportioned fresh water and sanitizing agent while washing a given load of ware. The sanitizing agent is introduced independently into the holding tank and independently of the fresh water line, and is therefore unaffected by a great range of water line pressures and the mineral conditions of the water.

12 Claims, 9 Drawing figures

Exemplary Claim Number: 10

Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw	De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	------	----

☐ 8. Document ID: US 4147558 A

L12: Entry 8 of 9

File: USPT

Apr 3, 1979

US-PAT-NO: 4147558

DOCUMENT-IDENTIFIER: US 4147558 A

**** See image for Certificate of Correction ****

TITLE: Method for rinsing and chemically sanitizing food ware items

DATE-ISSUED: April 3, 1979

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fraula; Louis F.	Troy	OH		
Athey; Stuart E.	Troy	OH		

US-CL-CURRENT: 134/10; 134/25.2, 134/36

ABSTRACT:

F.) warewasher low wash and rinse temperature (120.degree.-140.degree. F.) WareWasher accomplishes the same general washing and rinsing effectiveness as a conventional high temperature (150.degree. F. minimum wash, 180.degree. F. minimum rinse) warewasher without loss of productivity resulting from time lost between completion of washing and commencement of rinsing a given load of ware, through use of independent, dedicated wash and rinse systems, the latter of which includes a holding tank which enables independent batching of a predetermined volume of rinse solution from properly-proportioned fresh water and sanitizing agent while washing a given load of ware. The sanitizing agent is introduced independently into the holding tank and independently of the fresh water line, and is therefore unaffected by a great range of water line pressures and the mineral conditions of the water.

17 Claims, 9 Drawing figures
Exemplary Claim Number: 14
Number of Drawing Sheets: 6

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	KWIC	Draw	De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--	--------	------	------	----

☐ 9. Document ID: US 3706317 A

L12: Entry 9 of 9

File: USPT

Dec 19, 1972

US-PAT-NO: 3706317

DOCUMENT-IDENTIFIER: US 3706317 A

TITLE: MODULE TREATING APPARATUS

DATE-ISSUED: December 19, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fox; Gerald B.	Troy	OH		
Dudley; Wray E.	Troy	OH		
Athey; Stuart E.	Troy	OH		

US-CL-CURRENT: 134/57DL; 134/129, 134/46, 134/72

ABSTRACT:

Food storage modules, tray carts, and other large food handling equipment are sequentially subjected to timed washing and rinsing treatments as they are

intermittently conveyed on dollies through a wash chamber and a rinse chamber. Each chamber has a treatment station which includes horizontally and vertically directed power spray apparatus, and the modules are intermittently stopped for relatively short periods of time in which their interiors and exteriors are washed and rinsed with recirculating wash and rinse solutions. Communication between the chambers is controlled by pivotal doors at the inlets and outlets of each chamber which operate in timed sequence with the washing and rinsing operations. The pivotal doors substantially seal the chambers during the power spray operations and minimize intermixing of the wash and rinse solutions. After the simultaneous power sprays in each chamber are completed, the modules are subjected to a hot rinse by separate horizontal and vertical spray apparatus as they are conveyed out of the rinse chamber. Sequencing of the conveyor is controlled from positioning of a dolly at a discharge station.

11 Claims, 8 Drawing figures Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KINC	Draw. D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	---------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Term	Documents
BASKET	72447
BASKETS	17856
(11 AND BASKET).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	9
(L11 AND BASKET).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	9

Display Format:

[Previous Page](#) [Next Page](#) [Go to Doc#](#)

Hit List

[Clear](#) [Generate Collection](#) [Print](#) [Fwd Refs](#) [Bkwd Refs](#)
[Generate OACS](#)

Search Results - Record(s) 1 through 3 of 3 returned.

☐ 1. Document ID: US 20040194808 A1

Using default format because multiple data bases are involved.

L14: Entry 1 of 3

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040194808

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040194808 A1

TITLE: Method for cleaning an in-sink dishwasher

PUBLICATION-DATE: October 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Christman, Ralph E.	St. Joseph	MI	US	
Denne, Arnold L.	Stevensville	MI	US	
Lauer, Rud J.	Hartford	MI	US	

US-CL-CURRENT: 134/22.1; 134/22.12, 134/22.18, 134/34

[Full](#) [Title](#) [Citation](#) [Front](#) [Review](#) [Classification](#) [Date](#) [Reference](#) [Sequences](#) [Attachments](#) [Claims](#) [KWC](#) [Draw De](#)

☐ 2. Document ID: US 20030205248 A1

L14: Entry 2 of 3

File: PGPB

Nov 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030205248

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030205248 A1

TITLE: In-sink dishwasher with self-aligning liquid feed system

PUBLICATION-DATE: November 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Christman, Ralph E.	St. Joseph	MI	US	
Denne, Arnold L.	Stevensville	MI	US	
Lauer, Rud J.	Hartford	MI	US	

US-CL-CURRENT: 134/22.18; 134/104.1, 134/108, 134/111, 134/115R, 134/167R, 134/29,

ABSTRACT:

A dish-cleaning appliance comprising a sink having a bowl defining a wash chamber with an open top for providing access to the wash chamber. A liquid recirculation system is provided for spraying liquid onto the dish rack to effect the cleaning of any dishes along the rack. A basket with a sprayer is disposed within the wash chamber. A self-aligning coupling fluidly connects a liquid conduit to the sprayer when the basket is seated.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw.D
------	-------	----------	-------	--------	----------------	------	-----------	-----------	-------------	--------	-----	--------

L14: Entry 3 of 3

File: USPT

Jun 1, 2004

US-PAT-NO: 6742531

DOCUMENT-IDENTIFIER: US 6742531 B2

TITLE: In-sink dishwasher with self-aligning liquid feed system

DATE-ISSUED: June 1, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Christman; Ralph E.	St. Joseph	MI		
Denne; Arnold L.	Stevensville	MI		
Lauer; Rud J.	Hartford	MI		

US-CL-CURRENT: 134/115R; 134/103.1, 134/176, 134/179, 134/198, 134/95.1, 134/99.1

ABSTRACT:

A dish-cleaning appliance comprising a sink having a bowl defining a wash chamber with an open top for providing access to the wash chamber. A liquid recirculation system is provided for spraying liquid onto the dish rack to effect the cleaning of any dishes along the rack. A basket with a sprayer is disposed within the wash chamber. A self-aligning coupling fluidly connects a liquid conduit to the sprayer when the basket is seated.

41 Claims, 12 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 10

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KUIC	Drawings
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	----------

Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Term	Documents
SELF-CLEANING	21310
SELF-CLEANINGS	2
(13 AND SELF-CLEANING).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	3
(L13 AND (SELF-CLEANING)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	3

Display Format:

Change Format

[Previous Page](#)[Next Page](#)[Go to Doc#](#)

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 11 through 15 of 15 returned.

☐ 11. Document ID: GB 2200834 A, FR 2610506 A, GB 2200834 B

Using default format because multiple data bases are involved.

L23: Entry 11 of 15

File: DWPI

Aug 17, 1988

DERWENT-ACC-NO: 1988-229920

DERWENT-WEEK: 198833

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Dishwasher with self-cleaning pump-protecting filter - provides indication of possible condition of non-locking of fine-mesh filter which could compromise entire filtering effect of machine

INVENTOR: TASSOTTI, S

PRIORITY-DATA: 1987IT-0034009 (February 6, 1987)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>GB 2200834 A</u>	August 17, 1988		008	
<u>FR 2610506 A</u>	August 12, 1988		000	
<u>GB 2200834 B</u>	November 21, 1990		000	

INT-CL (IPC): A47L 15/42

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	-----	--------

☐ 12. Document ID: DK 8101659 A, EP 121513 A, FI 8402337 A, JP 59502054 W, NO 8402241 A, WO 8401498 A

L23: Entry 12 of 15

File: DWPI

Dec 6, 1982

DERWENT-ACC-NO: 1983-A0547K

DERWENT-WEEK: 198301

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Dishwasher with self-cleaning filter tube in lyecontainer - uses liq. drained from washing chamber to flush out scraps of food from interior of tube

PRIORITY-DATA: 1981DK-0001659 (April 13, 1981), 1982EP-0903140 (October 13, 1982), 1982JP-0503149 (June 11, 1981), 1982WO-DK00094 (October 13, 1982)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>DK 8101659 A</u>	December 6, 1982		006	

EP 121513 A	October 17, 1984	E	000
FI 8402337 A	June 8, 1984		000
JP 59502054 W	December 13, 1984		000
NO 8402241 A	August 6, 1984		000
WO 8401498 A	April 26, 1984	E	000

INT-CL (IPC): A47L 15/42

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	-----	---------

☐ 13. Document ID: CA 1115624 A

L23: Entry 13 of 15

File: DWPI

Jan 5, 1982

DERWENT-ACC-NO: 1982-B0159E

DERWENT-WEEK: 198205

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Dishwasher with self-cleaning by=pass filter - accumulates washing liq. in lower chamber and uses electric motor driven pump for recirculation

INVENTOR: CUSHING, D S; JENKINS, T E

PRIORITY-DATA: 1977US-0861316 (December 16, 1977)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
CA 1115624 A	January 5, 1982		016	

INT-CL (IPC): B08B 3/02

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMC	Draw De
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	-----	---------

☐ 14. Document ID: DE 2413790 A

L23: Entry 14 of 15

File: DWPI

Oct 2, 1975

DERWENT-ACC-NO: 1975-L0830W

DERWENT-WEEK: 197541

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Dishwasher with self-cleaning fine filter - has auxiliary water storage chamber which during emptying draws dirt back through filter

PRIORITY-DATA: 1974DE-2413790 (March 22, 1974)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 2413790 A	October 2, 1975		000	

INT-CL (IPC): A47L 15/42

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

☐ 15. Document ID: US 3217884 A

L23: Entry 15 of 15

File: USOC

Nov 16, 1965

US-PAT-NO: 3217884

DOCUMENT-IDENTIFIER: US 3217884 A

TITLE: Washing device with self-cleaning filter

DATE-ISSUED: November 16, 1965

INVENTOR-NAME: LONG GEORGE B

US-CL-CURRENT: 210/108; 134/111, 134/56D, 210/167, 210/411

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw D
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--------	------	--------

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
-------	---------------------	-------	----------	-----------	---------------

Term	Documents
DISHWASHER	16009
DISHWASHERS	5625
(18 NEAR DISHWASHER).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	15
(L18 NEAR DISHWASHER).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	15

Display Format: [Previous Page](#)[Next Page](#)[Go to Doc#](#)